

Appl. No. 09/784,551

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Original) An input unit arrangement with a mouse function mode and an input function mode, comprising an image-recording device for recording images and a signal-processing device for processing the images to achieve the mouse function mode and the input function mode, c h a r a c t e r i z e d in that the input unit arrangement is arranged to switch from the input function mode to the mouse function mode when the signal-processing device detects a predetermined position-coding pattern in one of said images.

A4
2. (Original) An input unit arrangement according to claim 1, which is arranged to switch from the mouse function mode to the input function mode when the signal-processing device detects a different pattern to the predetermined position-coding pattern in one of said images.

3-15. Cancelled

16. (Currently Amended) An input unit arrangement with a mouse function mode for controlling an electronic device, comprising:

a base;

a position-coding pattern provided on said base and coding a first and second sets of absolute positions on spatially separate areas of said base; said first and second sets of absolute positions being mutually exclusive and coded by spatially separate first and second subsets of said position-coding pattern;

Appl. No. 09/784,551

an handheld image-recording device for recording images of said position-coding pattern; and

A4
a signal-processing device for deriving at least one position from the position coding pattern in the recorded image, said signal-processing device processing the images to achieve the mouse function mode, characterized in that the signal-processing device is arranged to detect part of an absolute position coding pattern in one of said images, determine a position based on the detected part, and establish to which of providing an instruction to the electronic device to perform a first function when said at least two regions the one absolute position belongs to the first set, and a, the input unit arrangement being arranged to carry out different second functions when said at least one absolute position belongs to the second set depending on which region the signal-processing device establishes.

17-21. Cancelled

22. (Original) An input unit arrangement with at least a first and a second function, comprising an image-recording device for recording images and a signal-processing device (20, 210) for processing the images, characterized in that the input unit arrangement is arranged to switch from the first function to the second function when the signal-processing device detects a predetermined position-coding pattern in one of said images.

23. (Original) An input unit arrangement according to claim 22, wherein the signal-processing device is designed to process the images to achieve at least one of said functions.

Appl. No. 09/784,551

24. (Currently Amended) A mouse pad for use in an input arrangement having an input sensor reading provided with a position-coding pattern and providing a signal to a electronic device to provide instruction thereto, comprising, characterized:

a base;

a-in that the position-coding pattern provided on said base and coding a first and second sets of absolute positions on spatially separate areas of said base; said first and second sets of absolute positions being mutually exclusive and coded by spatially separate first and second subsets of said position-coding pattern on the mouse pad is divided into at least two regions which are intended to achieve different functions of an input unit arrangement;

said first and second subsets of absolute positions being associated with first and second functions of said electronic device, respectively, and, when read by the input sensor, allowing the input sensor to instruct said electronic device to perform the function selected by use of the input sensor.

25. (Currently Amended) A-The mouse pad according to claim 24, further comprising wherein each of said at least two regions is provided with a visual indication provided on said base in association with each of said first and second subsets, said visual indication illustrating the first and second which makes it possible for a user to understand which functions, respectively of the input unit arrangement is achieved by means of the respective regions.

26. (Currently Amended) -The mouse pad according to claim 24, wherein said second function is a control function at least one region is intended for generating a command for controlling the an external electronic device.

Appl. No. 09/784,551

27. (Currently Amended) ~~A mouse~~ The pad according to claim 26~~6~~, wherein the controlling command is a command for concerns executing on of software on the electronic device.

28-29. (Cancelled)

30. (Original) Use of an absolute position-coding pattern in order to cause an input unit arrangement, preferably with a mouse function mode, to switch from a first to a second function.

31. (Currently Amended) A method for controlling an electronic device input unit arrangement between a first and a second function, using a handheld image recording device interacting with a position-code pattern the input unit arrangement comprising:
operating the handheld an image-recording device for recording images of the position-coding pattern provided on a base, the position coding pattern coding a first and second sets of absolute positions on spatially separate areas of the base; said first and second sets of absolute positions being mutually exclusive and coded by spatially separate first and second subsets of said position-coding pattern, and

operating a signal-processing device for processing the images to derive at least one position from the position coding pattern in the recorded image, providing an instruction to the electronic device to perform a, c-h-a-r-a-c-t-e-r-i-s-t-i-c in that the input unit arrangement automatically switches from the first function when said at least one absolute position belongs to the first set, and a to the second function when said at least one absolute position belongs to the second set, when the signal processing device detects a predetermined position-coding pattern in one of said images.

Appl. No. 09/784,551

32-43 (Cancelled)

44. (New) The input unit arrangement of claim 16, wherein said signal-processing device, in said first function and based on said at least one absolute position, generates signals for positioning a cursor on a display unit of the electronic device.

45. (New) The input unit arrangement of claim ³¹43, wherein the first function operates on a display control function of the electronic device.

46. (New) The input unit arrangement of claim 45, wherein the first function operates on the display control function to map said first set of absolute positions to corresponding absolute positions on a display unit of the electronic device.

47. (New) The input unit arrangement of claim 45, wherein the first function operates on the display control function to map said first set of absolute positions to corresponding relative positions on a display unit of the electronic device.

48. (New) The input unit arrangement of claim 45, wherein the first function operates on a display control function to effect scrolling.

49. (New) The input unit arrangement of claim 16, wherein said second function is an input function of the input unit arrangement.

50. (New) The input unit arrangement of claim 49, wherein said input function is selected from the group consisting of: a scanner function for inputting an image and/or text, a photographing function for inputting a photograph, and a handwriting recording function for inputting handwriting.

51. (New) The input unit arrangement of claim 50, wherein said signal-processing device, in said handwriting recording function, records a handwriting stroke as a sequence of absolute positions derived from said images.

Appl. No. 09/784,551

52. (New) The input unit arrangement of claim 51, wherein said sequence of absolute positions belongs to the second set.

53. (New) The input unit arrangement of claim 16, wherein said second function is an control function for generating a controlling command for the electronic device.

54. (New) The input unit arrangement of claim 53, wherein said controlling command is a command for executing software on the electronic device.

55. (New) The pad of claim 24, wherein the first function operates on a display control function of the electronic device.

56. (New) The pad of claim 55, wherein the first function operates on the display control function to map said first set of absolute positions to corresponding absolute positions on a display unit of the electronic device.

57. (New) The pad of claim 55, wherein the first function operates on the display control function to map said first set of absolute positions to corresponding relative positions on a display unit of the electronic device.

58. (New) The pad of claim 24, wherein said second function is an input function of the input unit arrangement.

59. (New) The pad of claim 58, wherein said input function is selected from the group consisting of: a scanner function for inputting an image and/or text, a photographing function for inputting a photograph, and a handwriting recording function for inputting handwriting.

60. (New) A method according to claim 31, further comprising: operating said signal-processing device to control said electronic device to effect at least one of the first and second functions based on said images.

Appl. No. 09/784,551

61. (New) The method of claim 31, further comprising: operating, in said first function and based on said at least one absolute position, said signal-processing device to generate signals for positioning a cursor on a display unit of the electronic device.

62. (New) The method of claim 31, wherein the first function operates on a display control function of the electronic device.

63. (New) The method of claim 62, wherein the first function operates on the display control function to map said first set of absolute positions to corresponding absolute positions on a display unit of the electronic device.

64. (New) The method of claim 62, wherein the first function operates on the display control function to map said first set of absolute positions to corresponding relative positions on a display unit of the electronic device.

65. (New) The method of claim 62, wherein the first function operates on the display control function to effect scrolling.

66. (New) The method of claim 31, wherein said second function is an input function of the input unit arrangement.

67. (New) The method of claim 65, wherein said input function is selected from the group consisting of: a scanner function for inputting an image and/or text, a photographing function for inputting a photograph, and a handwriting recording function for inputting handwriting.

68. (New) The method of claim 67, wherein said signal-processing device, in said handwriting recording function, records a handwriting stroke as a sequence of absolute positions derived from said images.

69. (New) The method of claim 68, wherein said sequence of absolute positions belongs to the second set.

Appl. No. 09/784,551

70. (New) The method of claim 31, wherein said second function is a control function for generating a controlling command for the electronic device.

71. (New) The method of claim 70, wherein said controlling command is a command for executing software on the electronic device.
